Design parameters for
LIGHT ATMOSPHERE in hospital wards
Lone Mandrup Stidsen
Phd student at Aalborg University, Dep. of Civil Engineering 2009-2012
Supervisor: Professor Poul Henning Kirkegaard
Phillips Lighting Denmark partly financing the project

Background
Textile designer from Kolding School of Design 2006
Primary school teacher from Silkeborg Seminarium 1999
Designer at Lostdesign (interior, acoustic and lighting) 2006
Teacher at Kolding School of Design 2008 - 2010
Dansk Standard (DS 703 chapter 2)

The Patients have only few visual tasks, but need a light that makes the surroundings as pleasurable as possible.

Staff must however have sufficient lighting to perform work that is often very visually demanding. The light colour must be selected according to patients’ needs for a pleasant “home” lighting, which in most cases is colour temperatures no higher than 3000 K and a fairly good colour rendering of Ra > 80.
Atmosphere
not a proof of "good taste" or architectural understanding. It is always present at all times.

Dalsgaard og Kortbak_ technology /others/Time aspect

Bech og Stidsen _ Socio Cultural aspect
Three minutes information about weather conditions/ day night
Theoretical study


Dalke, H., Littlefair P.J. & Loe 2006. "Lighting and colour for hospital design"

Visual Studies

In Architecture:
Peter Zumthor - material/light/space
Frank Lloyd Wright - light spaces

Theather lighting
Jesper Kongshaug - Operation Orfeus
Skuespilhuset

In Design
Philips Heal well project in Mastrict
Zumtobel hospital lighting
Ward atmosphere
Ward activities
Function of objects
Use of objects
Use of light
Physical measurements
Interview staff and patients
RFID tracking staff
Interviewing staff and patients

Article: “Optimizing Lighting Design for Hospital Wards by Defining User Zones”
Preferences

15 Interviews
Anthropological approach
Photoalbum homely illumination

*Article: Patients light preferences in hospital wards - related to light atmosphere in Danish homes*
Trends

Historical view on light atmosphere 1961-2010.
Analysing 3500 pictures from articles showing homely illumination.
Thank you!